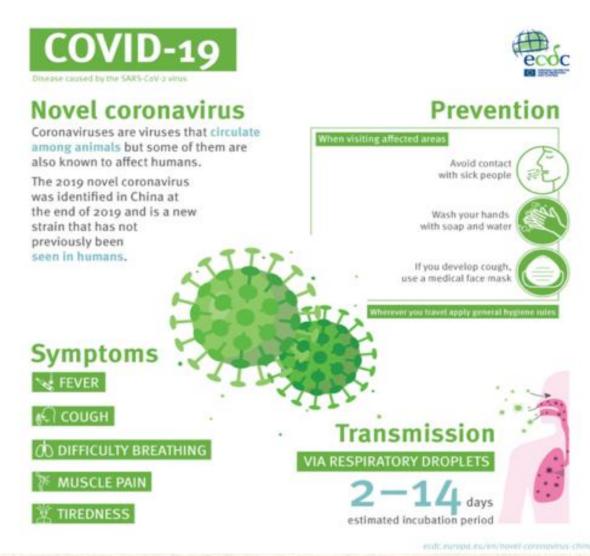
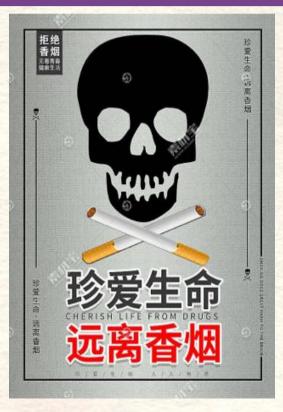
#### Popularization Strategies in Public Health Discourse: a Corpus-based Analysis in Portuguese and Chinese



### > 1. Introduction

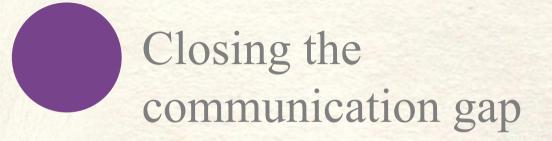


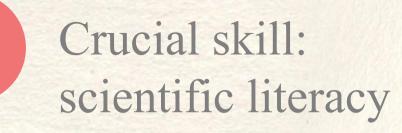
The accessibility of information has empowered individuals to self-educate, particularly in matters of public health



#### 2. Trends in Public Self-Education







### 3. Language for Specific Purposes in Medical Discourse

Vertical structure of medical discourse in Language for Specific Purposes (LSP)

## Internal communication

External discourse

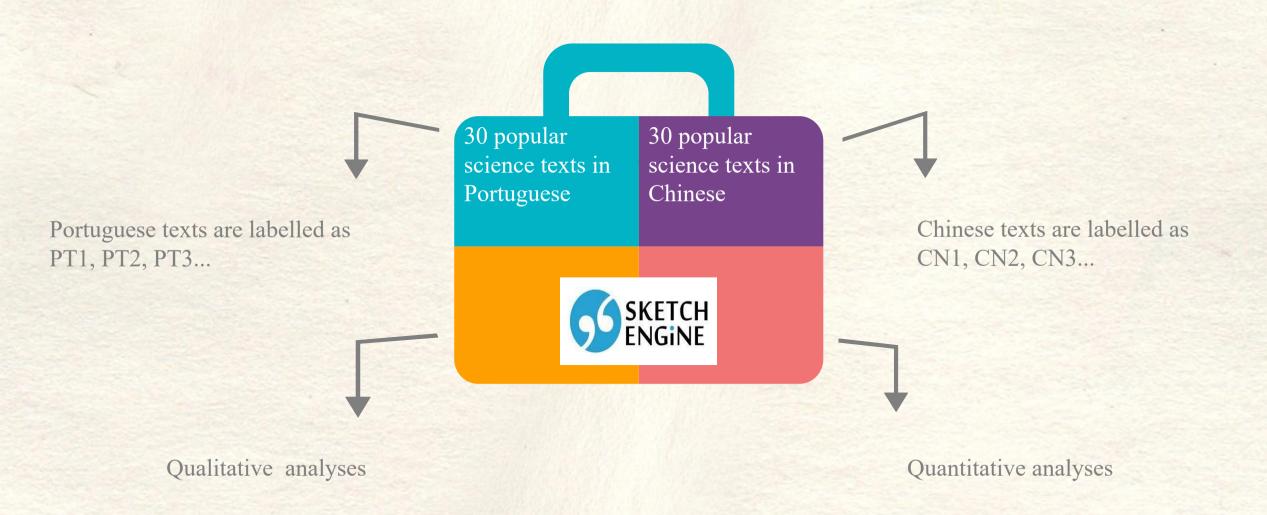
Involves doctor-patient interactions and communication with a broader audience

4. Reformulation markers

Reformulation markers in Chinese	Reformulation markers in		
Same Street State (17 Million (18 19 10)	Portuguese		
即Pinyin (PY): (jí)	-		
PT: nomeadamente			
ENG: namely			
换言之(huàn yán zhī)	-		
PT: por outras palavras			
ENG: in other words			
换句话说/换句话讲 (huàn jù huà shuō / huàn	ou seja		
jù huà jiăng)	noutros termos, dito de outro		
ENG: in other words	modo, por outras palavras		
	and the second of the second		
也就是说/这就是说(yě jiù shì shuō / zhè jiù	isto é		
shì shuō)	Report The State		
ENG: that is to say			
这(就)意味着(zhè (jiù ) yì wèi zhe)	quer dizer		
ENG: meaning / that is			

Most common paraphrastic markers of reformulation

#### 5. Method



#### 6. Quantitative analysis of reformulation markers

Corpus PT	Corpus CH	Frequency			•
		ou seja	noutros termos, ditos de outro modo, por outras palavras	isto é	quer dizer
		换句话说(huàn jù huà shuō) LT: change sentence words explain / change sentence words explain		也就是说(yě jiù shì shuō) LT: also that's it yes explain	这(就)意味 (zhè (jiù ) yì wèi zhe)
PT20		4	0	0	0
PT1, PT3		3	0	0	0
PT2, PT15, PT19, PT23, PT26, PT29, PT30		2	0	0	0
PT4, PT5, PT6, PT7, PT8, PT9, PT10, PT11, PT12, PT14, PT16, PT17, PT18, PT21, PT22, PT24, PT25, PT27, PT28	CH8, CH9, CH10, CH11, CH12, CH13, CH15, CH17, CH18, CH19, CH22, CH23, CH24, CH25, CH27, CH28	1	0	0	0
PT13		1	0	1	0
PT18	CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH14, CH16, CH21, CH26, CH30	0 0 0		1	0
	CH29			3	T/ CAN
	CH20			2	1 2515

Frequency of reformulation markers in both corpora

### 7.1 Qualitative analysis of portuguese reformulation markers - ou seja (huàn jù huà shuō) and isto é (yě jiù shì shuō)

The expressions *isto é* and *ou seja* share a similar meaning, translating into English as *that is* or *in other words*. However, they are employed in slightly distinct contexts in the Portuguese language.

**PT20:** (...) Cholesterol is part of the cell membrane, if there is a lack of cholesterol when you renew your cells, they may have a rigid membrane and cellular exchange will be compromised. Recent research indicates that cholesterol can act as an antioxidant, ou seja (in other words), it protects cells against the harmful effects of free radicals. (...) The more adipocytes you fill, the more they will increase in volume and weight, ou seja (in other words), you will put on weight! [ou seja is refomulation of the last sentence] Isto *é (That is to say)* what happens when you exercise and your muscles need energy. [*Isto é* is explanation of the above statement] That's why intense exercise makes you lose weight! During exercise, a process called glycogenolysis takes place, ou seja (in other words), glucose is transformed into glycogen to be used as fuel. [ou seja is a explanation the of glicogénese] If glycogen starts to drop, the body starts another process, neoglycogenesis, ou seja (in other words), it goes into the reserves to get these triglycerides and uses the fat molecules as energy and the glycerol as glucose, so there's energy again and you get slimmer. [own translation] [ou seja is a explanation the of neoglicogénese]

### 7.1 Qualitative analysis of portuguese reformulation markers - ou seja (huàn jù huà shuō) and isto é (yě jiù shì shuō)

**PT13:** (...) It is in the vessels through which the blood circulates that the main effects of the toxic substances that tobacco contains will occur, damaging the vascular endothelium, *isto é (that is to say)*, the thin cellular layer that lines the inside of the vesselsIt is important to stop smoking altogether and moderate alcohol consumption. *Isto é* is used to explain the medical term introduced earlier, the vascular endothelium If this is done before irreversible damage is established, complaints can improve. *Ou seja (In other words)*, the sooner you give up tobacco addiction and alcohol abuse, the better the prospects for recovery, not only sexually, but also for the cardiovascular system and other systems. *[ou seja* is employed to reiterate the positive health effects of quitting smoking and limiting alcohol consumption]

### **7.2 Qualitative analysis of chinese reformulation markers - ou seja (huàn jù huà shuō) and isto é (yě jiù shì shuō)**

The expressions *isto é* and *ou seja* share a similar meaning, translating into English as *that is* or *in other words*. However, they are employed in slightly distinct contexts in the Portuguese language.

**CH23:** (...) It can be seen that the culprit of hyperlipidaemia is improper diet, and the key to preventing and controlling hyperlipidaemia is also diet, *换句话说 (huàn jù huà shuō, in other words)*, improper diet will lead to hyperlipidaemia [own translation]. [The function of *换句话说 (huàn jù huà shuō)* is reformulation and simplification of the last sentence]

CH6: (...) Nowadays, a variety of fruits on the market in large quantities, people in the feast at the same time, some of the discomfort caused by eating fruit also often happen. 也就是说 (yě jiù shì shuō, that is to say), fruit also has "side effects", especially the following situations to pay more attention [own translation]. [The function of 也就是说 (yě jiù shì shuō) is to generalise and explain]

#### 8. Conclusions

The discourse marker *ou seja* is employed to rephrase or express something in a different way to enhance understanding, and be used for discourse strategies that imply a reformulation of the speech.

The discourse marker *ou seja* can also be used to introduce new information for clarification purposes.

The discourse marker *isto*  $\acute{e}$  is used to offer additional clarification or explanation of a preceding statement.



# Thanks for your attention

